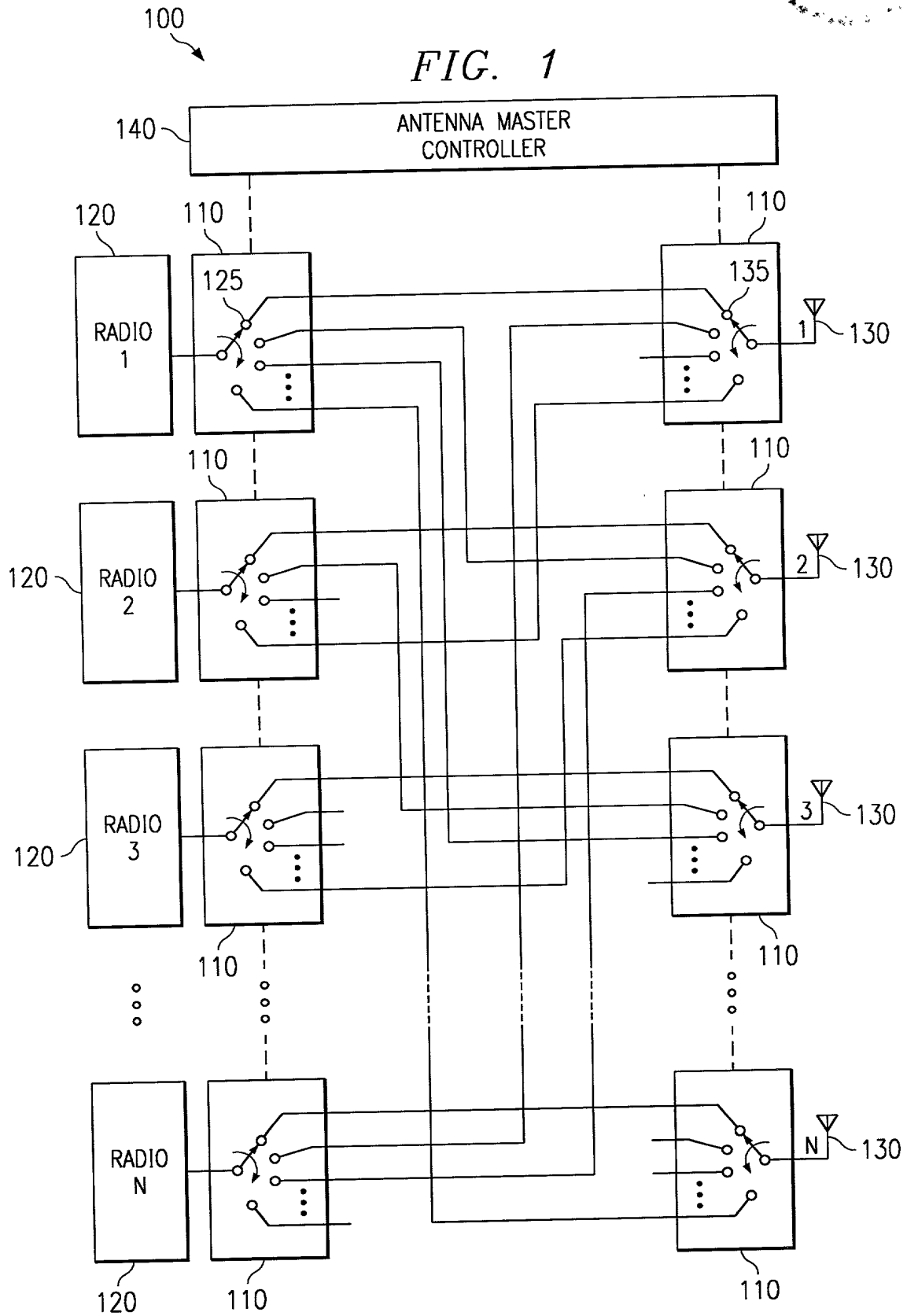


FIG. 1



20084391.040803

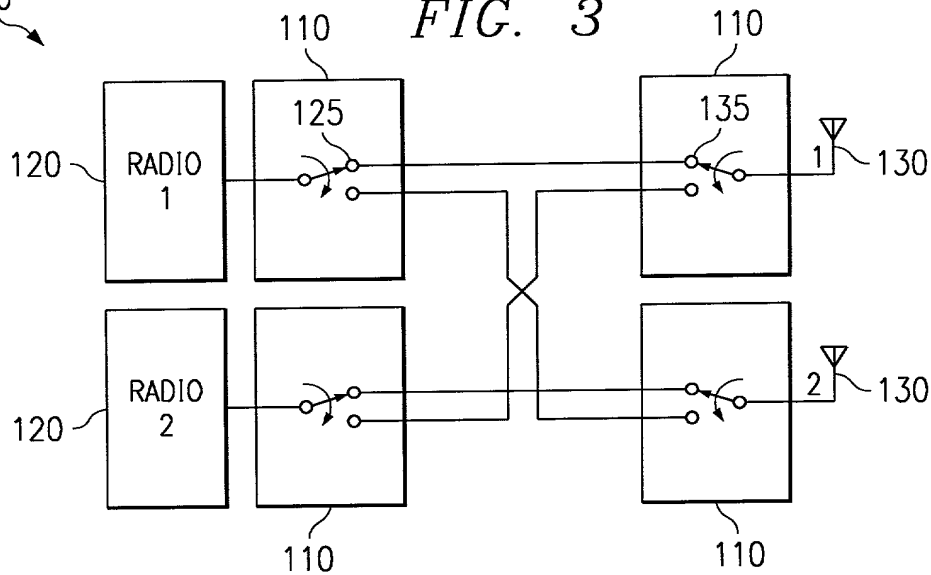
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FIG. 2

SWITCHING STATE	CONNECTION1	CONNECTION2	CONNECTION3	CONNECTIONk	...	CONNECTIONN
1	$1 \leftrightarrow 1$	$2 \leftrightarrow 2$	$3 \leftrightarrow 3$	$k \leftrightarrow k$...	$N \leftrightarrow N$
2	$1 \leftrightarrow 2$	$2 \leftrightarrow 3$	$3 \leftrightarrow 4$	$k \leftrightarrow k_N+1$...	$N \leftrightarrow 1$
3	$1 \leftrightarrow 3$	$2 \leftrightarrow 4$	$3 \leftrightarrow 5$	$k \leftrightarrow k_N+2$...	$N \leftrightarrow 2$
j	$1 \leftrightarrow j$	$2 \leftrightarrow j_N+1$	$3 \leftrightarrow j_N+2$	$k \leftrightarrow j_N+k_N-1$...	$N \leftrightarrow j-1$
\vdots	\vdots	\vdots	\vdots	\vdots	\vdots	\vdots
N	$1 \leftrightarrow N$	$2 \leftrightarrow 1$	$3 \leftrightarrow 2$	$k \leftrightarrow k-1$...	$N \leftrightarrow (N-1)$

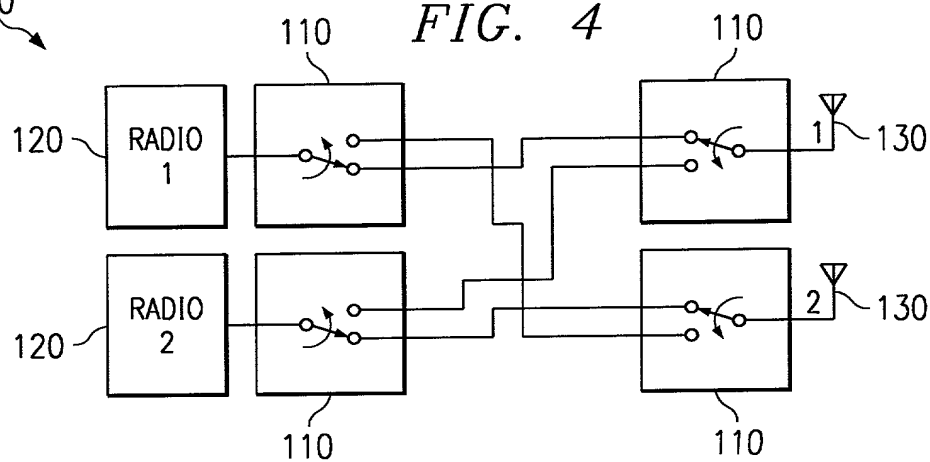
300

FIG. 3



400

FIG. 4



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FIG. 5

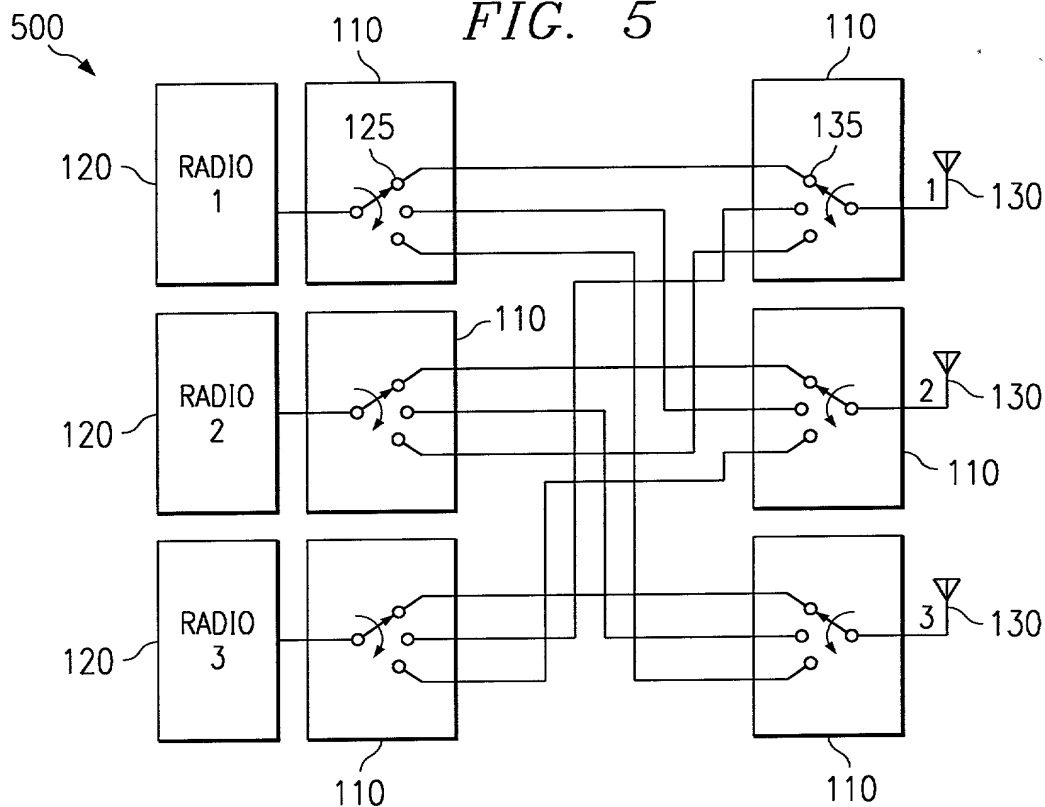


FIG. 6

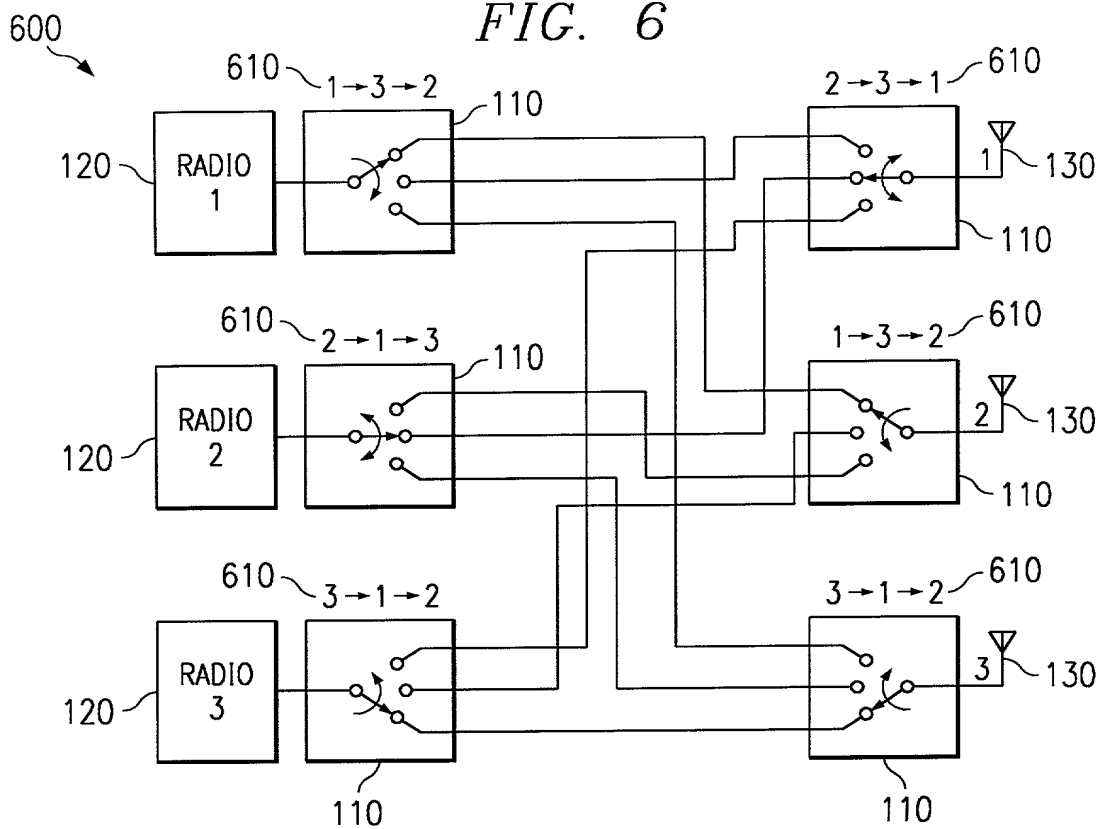
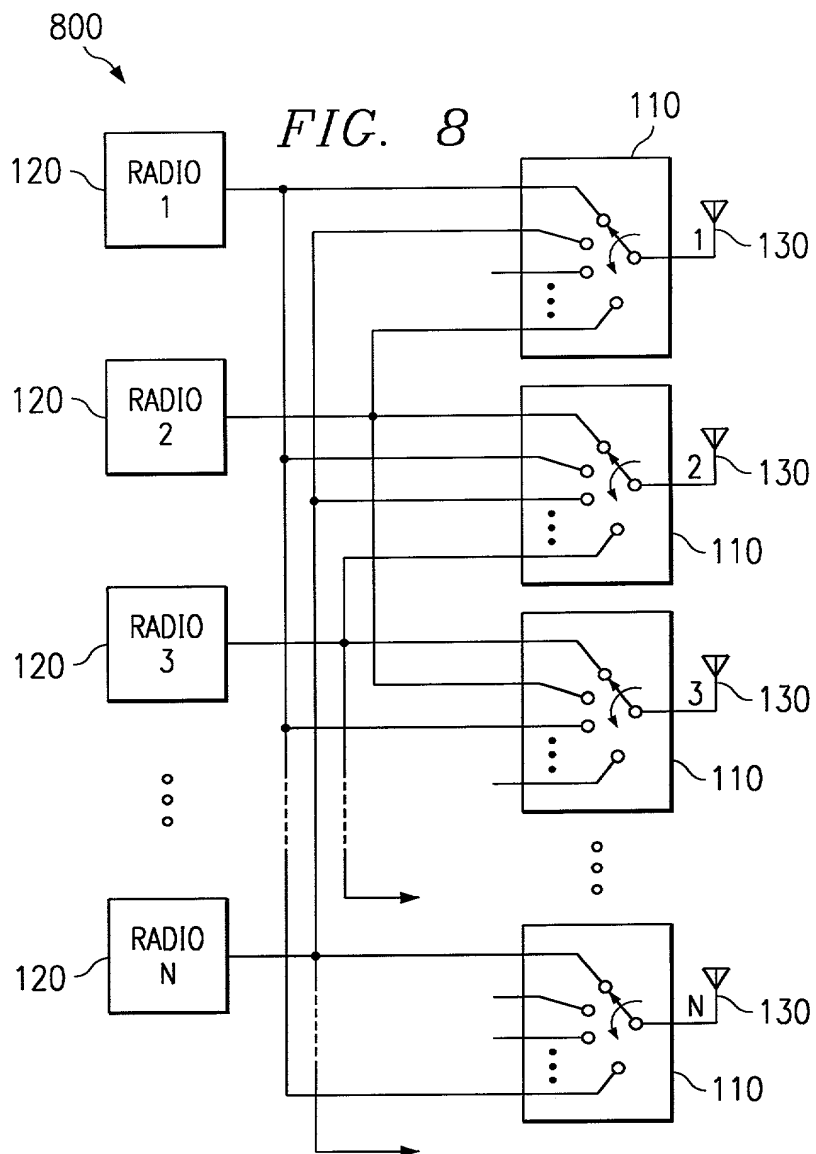


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SWITCHING STATE	SWITCH POSITIONS				CONNECTION 1	CONNECTION 2	CONNECTION 3
1	R1	1	2	A1	1 ↔ 2	2 ↔ 1	3 ↔ 3
	R2	2	1	A2			
	R3	3	3	A3			
2	R1	3	3	A1	2 ↔ 2	3 ↔ 1	1 ↔ 3
	R2	1	3	A2			
	R3	1	1	A3			
3	R1	2	1	A1	3 ↔ 2	1 ↔ 1	2 ↔ 3
	R2	3	2	A2			
	R3	2	2	A3			



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900A

FIG. 9A

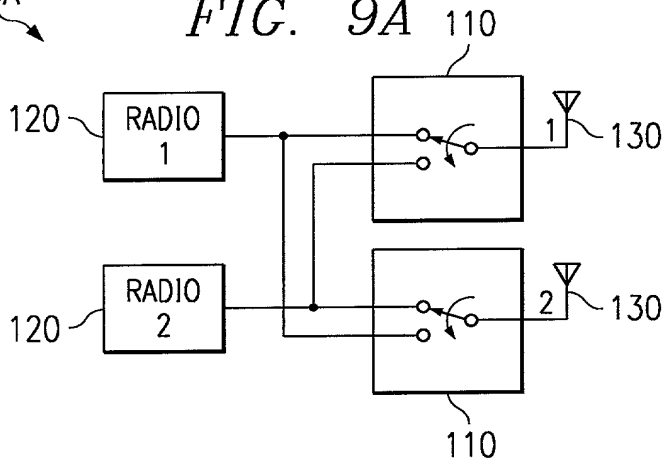
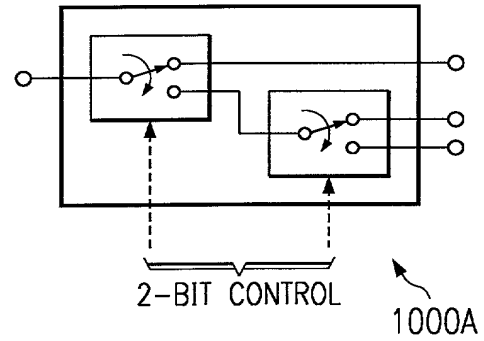


FIG. 10A



900B

FIG. 9B

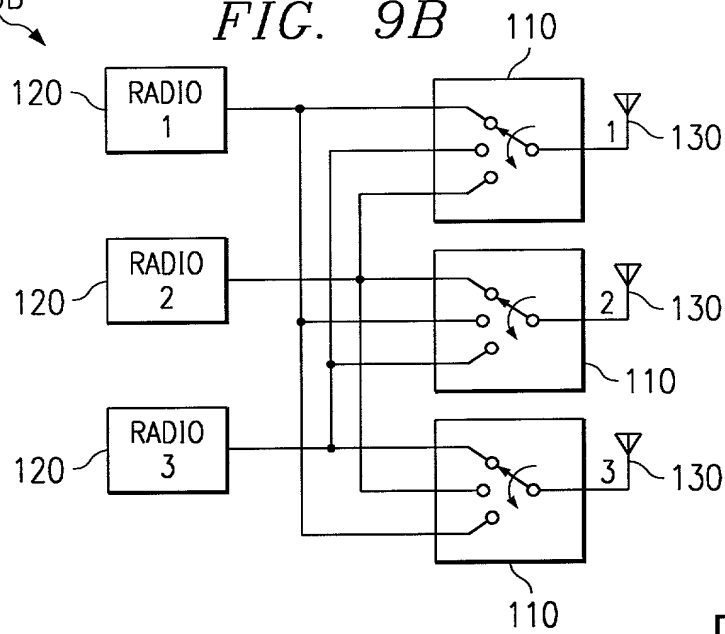
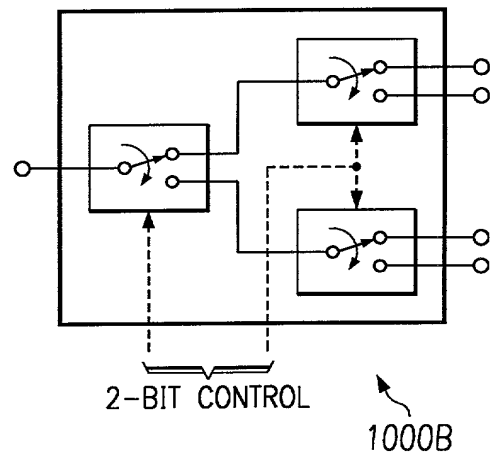


FIG. 10B



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